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(CS) field  
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NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM  
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NEWS 9 OCT 21 Derwent World Patents Index enhanced with human  
translated claims for Chinese Applications and  
Utility Models  
NEWS 10 OCT 27 Free display of legal status information in CA/CAPLUS,  
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FILE COVERS 1907 - 12 Nov 2009 VOL 151 ISS 20  
FILE LAST UPDATED: 11 Nov 2009 (20091111/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1 1 US20060166034/PN

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L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2004:203793 CAPLUS  
DN 140:254984  
ED Entered STN: 14 Mar 2004  
TI Monoaminofluorene dyes and organic light-emitting device using them  
IN Saito, Akihito; Hiraoka, Mizuho; Suzuki, Koichi; Senoo, Akihiro; Tanabe,

Hiroshi; Yamada, Naoki; Negishi, Chika  
 PA Canon Kabushiki Kaisha, Japan  
 SO PCT Int. Appl., 101 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C07C211-61  
 ICS C09K011-06; H05B033-14  
 CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)  
 Section cross-reference(s): 25, 74, 76

FAN.CNT 1

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	AU 2003253443	A1	20040319	AU 2003-253443	20030812
	EP 1542962	A1	20050622	EP 2003-791210	20030812
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
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CLASS

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JP 2004091350	IPCI	C07C0211-61 [I, A]; C07C0211-00 [I, C*]; C09K0011-06 [I, A]; H01L0051-50 [I, A]
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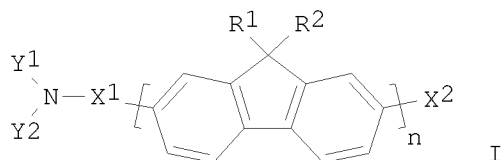
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[N, A]; H01L0051-05 [N, C\*]; H01L0051-30 [N, A]  
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EP 1542962 IPCI C07C0211-61 [ICM, 7]; C07C0211-00 [ICM, 7, C\*];  
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US 20060166034 IPCI H01L0051-54 [I, A]; H01L0051-50 [I, C\*]; H05B0033-14  
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NCL 428/690.000; 257/E51.051; 313/504.000; 313/506.000;  
428/917.000; 546/094.000; 548/440.000; 564/426.000;  
564/427.000; 564/429.000; 564/433.000  
ECLA H01L051/00M6D; C07C211/61; C09K011/06; H01L051/00M2B6;  
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T01L; T01L; T01L; T01L; T01L

OS MARPAT 140:254984  
GI



AB Novel monoaminofluorene dyes (I; R1, R2 = H, organic group; X = H, halogen,  
organic group, CN; Y1, Y2 = organic group, Y1 and Y2 together may form a ring;  
Z  
= organic divalent group, direct bond; n = 1-10) are provided. Organic  
light-emitting/electroluminescent devices using I exhibit good  
luminescence hue of extremely high purity and have optical output with  
high luminescence efficiency, high luminance and longer operating life.  
In an example, 2,2'-bis(9,9-dimethylfluorene) was prepared, monoiodinated on  
the 7-position, and condensed with bis(p-tolyl)amine to provide a

fluorescent dye.

ST fluorene amine dye prodn electroluminescent device

IT Electroluminescent devices  
Fluorescent dyes  
(production of monoaminofluorene dyes and organic light-emitting devices using them)

IT 361486-60-4 441352-90-5 475461-36-0 549528-98-5 608130-98-9  
668994-18-1 668994-19-2 668994-20-5  
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)  
(in organic light-emitting devices using monoaminofluorene dyes)

IT 400607-20-7P 505078-42-2P 669059-71-6P 669059-73-8P  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(intermediate; production of monoaminofluorene dyes and organic light-emitting devices using them)

IT 669059-26-1 669059-28-3 669059-32-9 669059-33-0 669059-37-4  
669059-39-6 669059-41-0 669059-43-2 669059-45-4 669059-47-6  
669059-49-8 669059-51-2 669059-55-6 669059-57-8  
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)  
(monoaminofluorene dyes and organic light-emitting devices using them)

IT 669059-30-7P 669059-35-2P 669059-53-4P  
RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(production of monoaminofluorene dyes and organic light-emitting devices using them)

IT 620-93-9 4612-26-4, p-Phenylenediboronic acid 7553-56-2, Iodine, reactions 144981-85-1, 2-Iodo-9,9-dimethylfluorene 333432-28-3 654067-65-9  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(starting material; production of monoaminofluorene dyes and organic light-emitting devices using them)

OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

UPOS.G Date last citing reference entered STN: 16 Feb 2009

OS.G CAPLUS 2007:1300534; 2006:1096337; 2006:1007746; 2006:566609; 2006:318346; 2005:1075774

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE CITED REFERENCES

- (1) Aventis Research & Technologies Gmbh & Co Kg; EP 1053578 A1 1999 CAPLUS
- (2) Aventis Research & Technologies Gmbh & Co Kg; JP 2002503037 A 1999
- (3) Aventis Research & Technologies Gmbh & Co Kg; WO 9940655 A1 1999 CAPLUS
- (4) Canon Kabushiki Kaisha; JP 07-43920 A 1995 CAPLUS
- (5) Canon Kabushiki Kaisha; JP 200166809 A 2001
- (6) Fuji Photo Film Co Ltd; JP 2001192651 A 2001 CAPLUS
- (7) Kelley, C; Journal of Chemical Research, Synopses 1997, V12, P446
- (8) Mitsui Chemicals Inc; WO 0214244 A1 2002 CAPLUS
- (9) Mitsui Chemicals Inc; EP 1221434 A1 2002 CAPLUS
- (10) Mitsui Chemicals Inc; JP 2002154993 A 2002 CAPLUS
- (11) Spreitzer, H; EP 1053216 A1 2003 CAPLUS
- (12) Spreitzer, H; JP 2002502889 A 2003
- (13) Spreitzer, H; US 20030065190 A1 2003
- (14) Spreitzer, H; WO 9940051 A1 2003 CAPLUS
- (15) Toray Industries Inc; JP 20028866 A 2002
- (16) Uniax Corporation; JP 2000506916 A 1997
- (17) Uniax Corporation; US 5900327 A 1997
- (18) Uniax Corporation; EP 885461 A1 1997 CAPLUS
- (19) Uniax Corporation; WO 9733323 A1 1997 CAPLUS

(20) Xerox Corporation; JP 10-255985 A 1999 CAPLUS  
(21) Xerox Corporation; US 5989737 A 1999 CAPLUS

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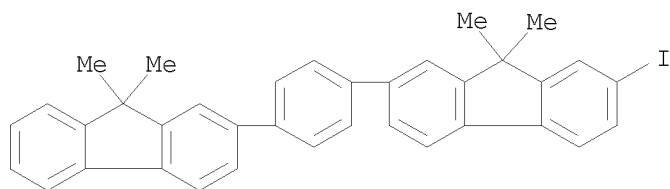
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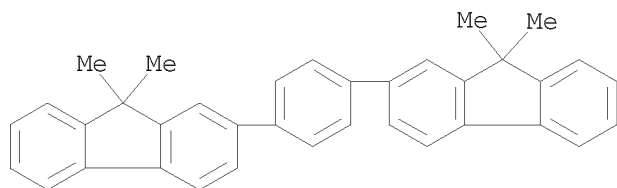




\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-71-6 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN 9H-Fluorene, 2,2'-(1,4-phenylene)bis[9,9-dimethyl- (CA INDEX NAME)  
MF C36 H30  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

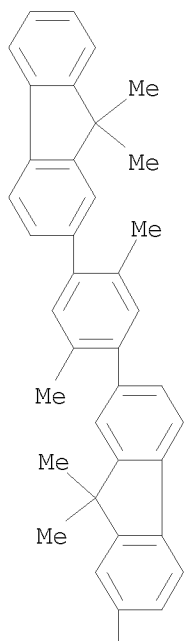


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

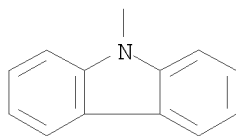
2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-57-8 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN 9H-Carbazole, 9-[7-[4-(9,9-dimethyl-9H-fluorene-2-yl)-2,5-dimethylphenyl]-  
9,9-dimethyl-9H-fluorene-2-yl]- (CA INDEX NAME)  
MF C50 H41 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

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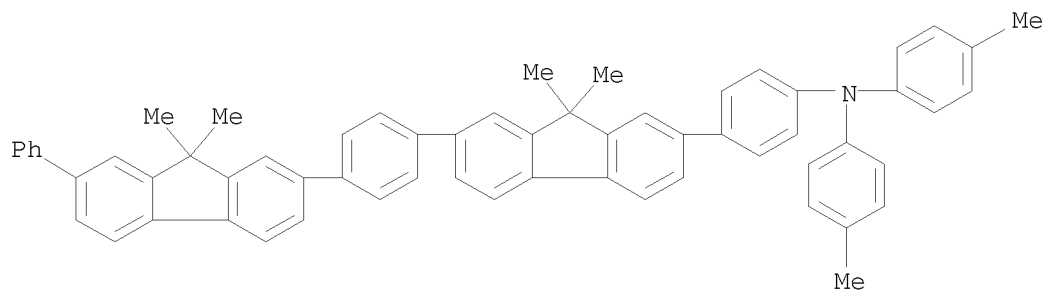
PAGE 2-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

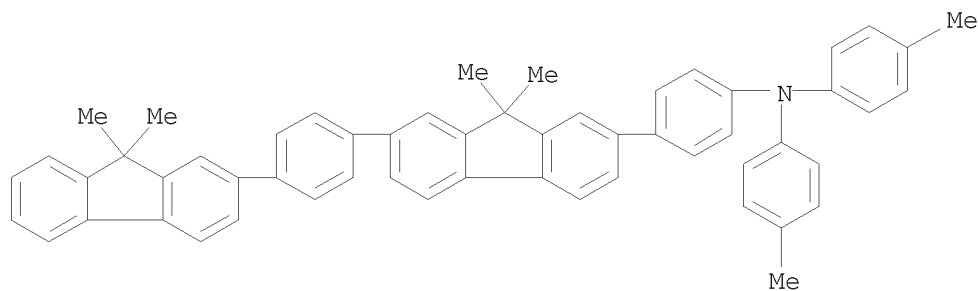
L2 ANSWER 4 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-55-6 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN Benzenamine, 4-[7-[4-(9,9-dimethyl-7-phenyl-9H-fluoren-2-yl)phenyl]-9,9-  
dimethyl-9H-fluoren-2-yl]-N,N-bis(4-methylphenyl)- (CA INDEX NAME)  
MF C62 H51 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

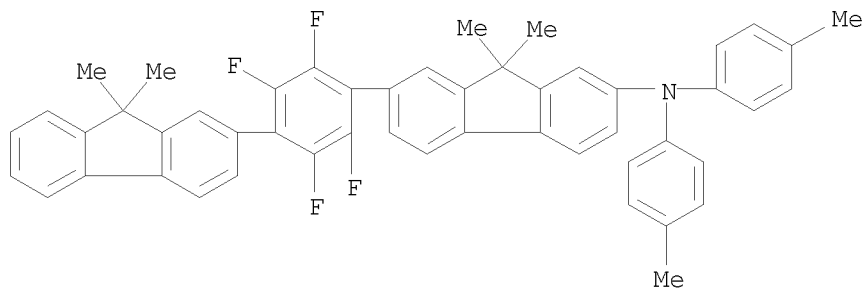
L2 ANSWER 5 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-53-4 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN Benzenamine, 4-[7-[4-(9,9-dimethyl-9H-fluoren-2-yl)phenyl]-9,9-dimethyl-9H-fluoren-2-yl]-N,N-bis(4-methylphenyl)- (CA INDEX NAME)  
MF C56 H47 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

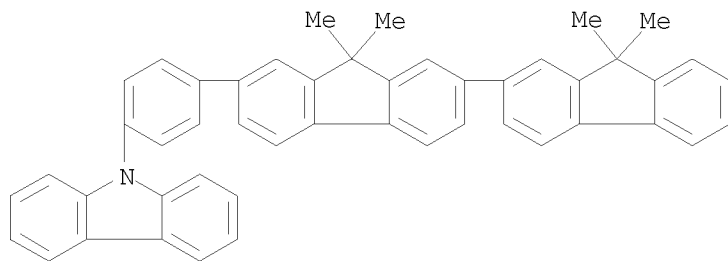
L2 ANSWER 6 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-51-2 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN 9H-Fluoren-2-amine, 7-[4-(9,9-dimethyl-9H-fluoren-2-yl)-2,3,5,6-tetrafluorophenyl]-9,9-dimethyl-N,N-bis(4-methylphenyl)- (CA INDEX NAME)  
MF C50 H39 F4 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-49-8 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN 9H-Carbazole, 9-[4-(9,9,9',9'-tetramethyl[2,2'-bi-9H-fluorenyl]-7-yl)phenyl]-  
(CA INDEX NAME)  
MF C48 H37 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

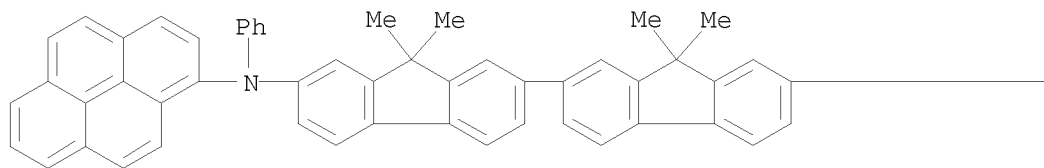


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

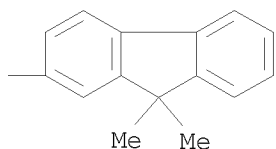
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-47-6 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN 1-Pyrenamine, N-(9,9,9',9',9'',9''-hexamethyl[2,2':7',2''-ter-9H-fluorenyl]-  
7-yl)-N-phenyl- (9CI) (CA INDEX NAME)  
MF C67 H51 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

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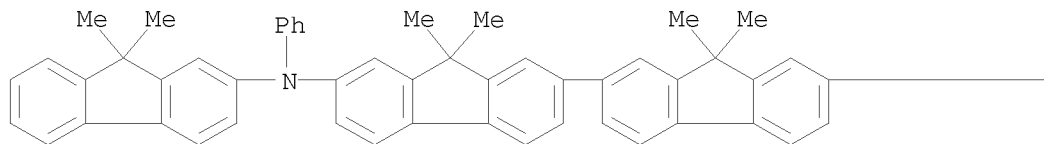


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

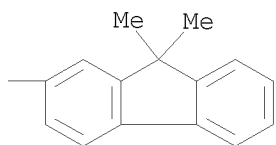
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-45-4 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN [2,2':7',2''-Ter-9H-fluoren]-7-amine,  
N-(9,9-dimethyl-9H-fluoren-2-yl)-9,9,9',9',9'',9''-hexamethyl-N-phenyl-  
(9CI) (CA INDEX NAME)  
MF C66 H55 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

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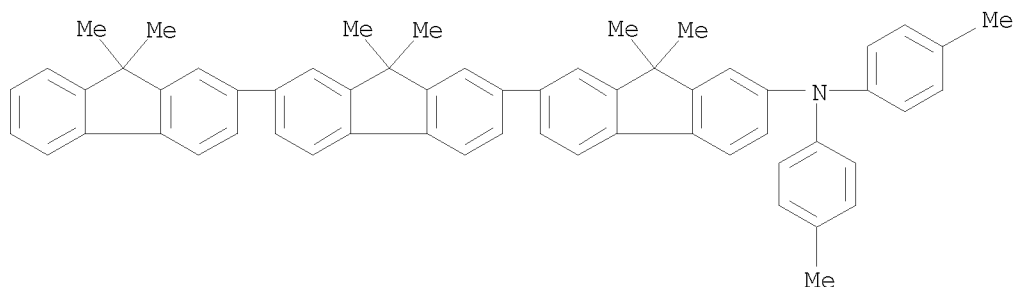
PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

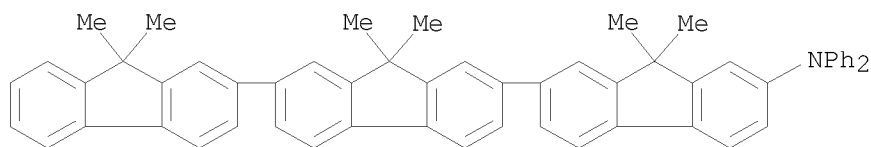
L2 ANSWER 10 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 669059-43-2 REGISTRY  
 ED Entered STN: 31 Mar 2004  
 CN [2,2':7',2''-Ter-9H-fluoren]-7-amine,  
 9,9,9',9',9'',9'''-hexamethyl-N,N-bis(4-methylphenyl)- (9CI) (CA INDEX  
 NAME)  
 MF C59 H51 N  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

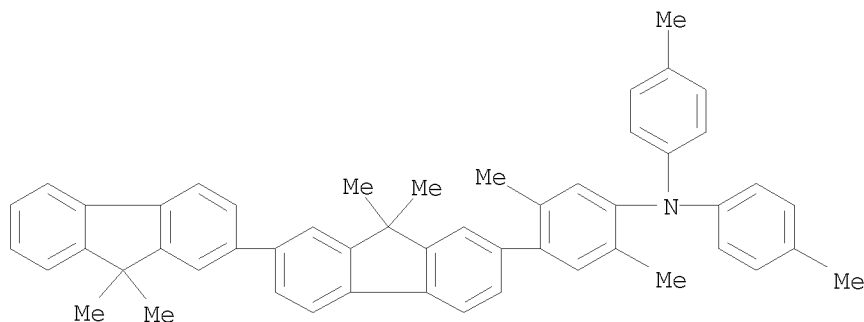
L2 ANSWER 11 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 669059-41-0 REGISTRY  
 ED Entered STN: 31 Mar 2004  
 CN [2,2':7',2''-Ter-9H-fluoren]-7-amine,  
 9,9,9',9',9'',9'''-hexamethyl-N,N-diphenyl- (9CI) (CA INDEX NAME)  
 MF C57 H47 N  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

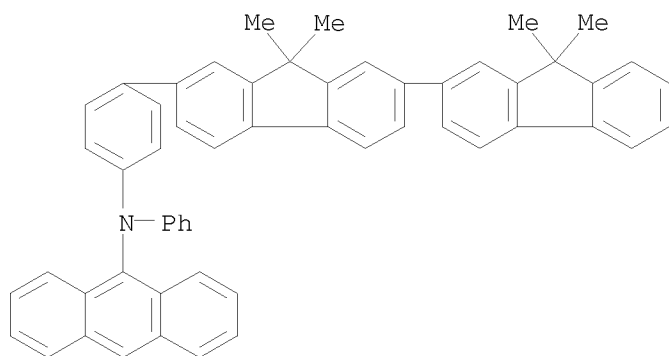
L2 ANSWER 12 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 669059-39-6 REGISTRY  
 ED Entered STN: 31 Mar 2004  
 CN Benzenamine, 2,5-dimethyl-N,N-bis(4-methylphenyl)-4-(9,9,9',9'-  
 tetramethyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)  
 MF C52 H47 N  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

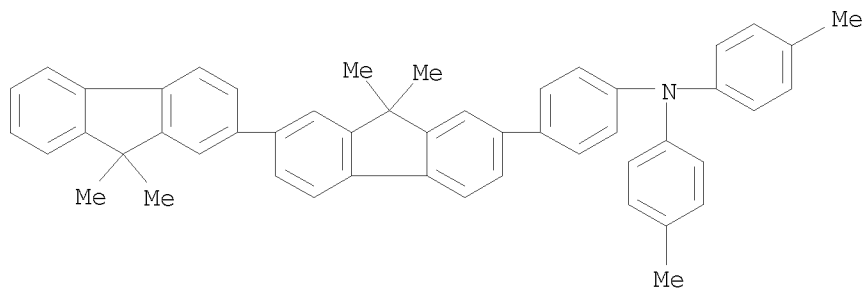
L2 ANSWER 13 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-37-4 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN 9-Anthracenamine, N-phenyl-N-[4-(9,9,9',9'-tetramethyl[2,2'-bi-9H-fluoren]-7-yl)phenyl]- (CA INDEX NAME)  
MF C56 H43 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

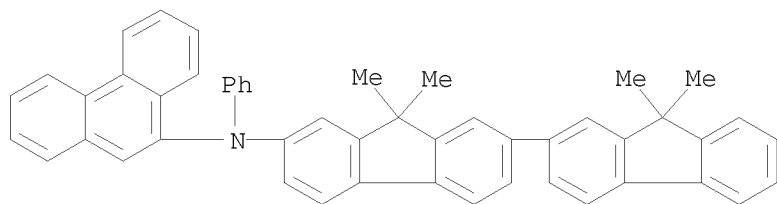
L2 ANSWER 14 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-35-2 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN Benzenamine, N,N-bis(4-methylphenyl)-4-(9,9,9',9'-tetramethyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)  
MF C50 H43 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

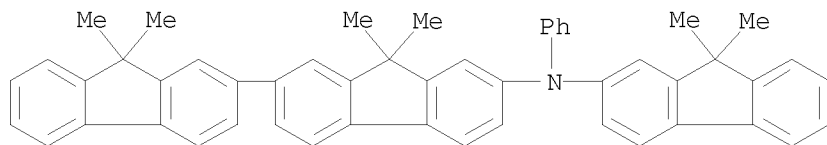
L2 ANSWER 15 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-33-0 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN 9-Phenanthrenamine, N-phenyl-N-(9,9,9',9'-tetramethyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)  
MF C50 H39 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 16 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-32-9 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN [2,2'-Bi-9H-fluoren]-7-amine, N-(9,9-dimethyl-9H-fluoren-2-yl)-9,9,9',9'-tetramethyl-N-phenyl- (CA INDEX NAME)  
MF C51 H43 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

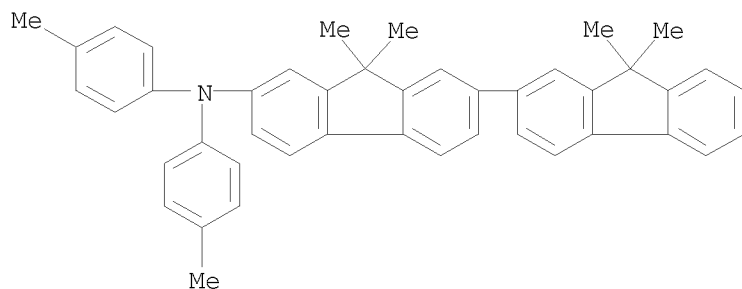




\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

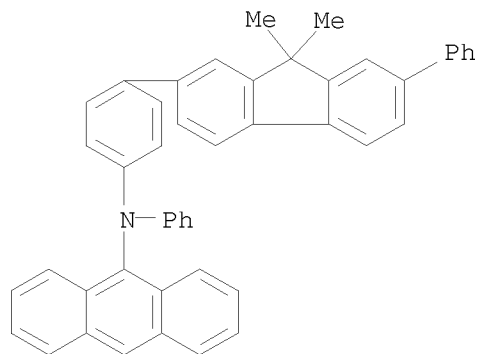
L2 ANSWER 17 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-30-7 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN [2,2'-Bi-9H-fluoren]-7-amine, 9,9,9',9'-tetramethyl-N,N-bis(4-methylphenyl)- (CA INDEX NAME)  
MF C44 H39 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

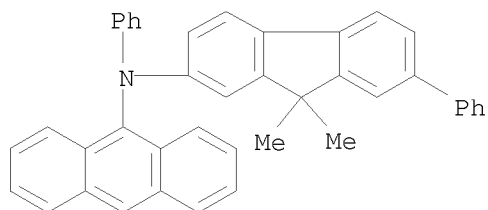
L2 ANSWER 18 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-28-3 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN 9-Anthracenamine, N-[4-(9,9-dimethyl-7-phenyl-9H-fluoren-2-yl)phenyl]-N-phenyl- (CA INDEX NAME)  
MF C47 H35 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

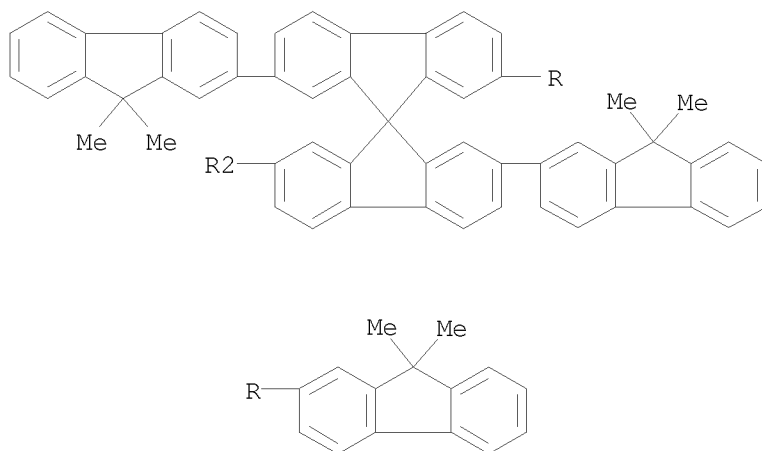
L2 ANSWER 19 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 669059-26-1 REGISTRY  
ED Entered STN: 31 Mar 2004  
CN 9-Anthracenamine, N-(9,9-dimethyl-7-phenyl-9H-fluoren-2-yl)-N-phenyl- (CA  
INDEX NAME)  
MF C41 H31 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



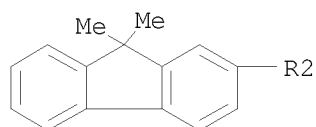
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 20 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 668994-20-5 REGISTRY  
ED Entered STN: 30 Mar 2004  
CN 9,9'-Spirobi[9H-fluorene], 2,2',7,7'-tetrakis(9,9-dimethyl-9H-fluoren-2-yl)- (CA INDEX NAME)  
MF C85 H64  
SR CA  
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



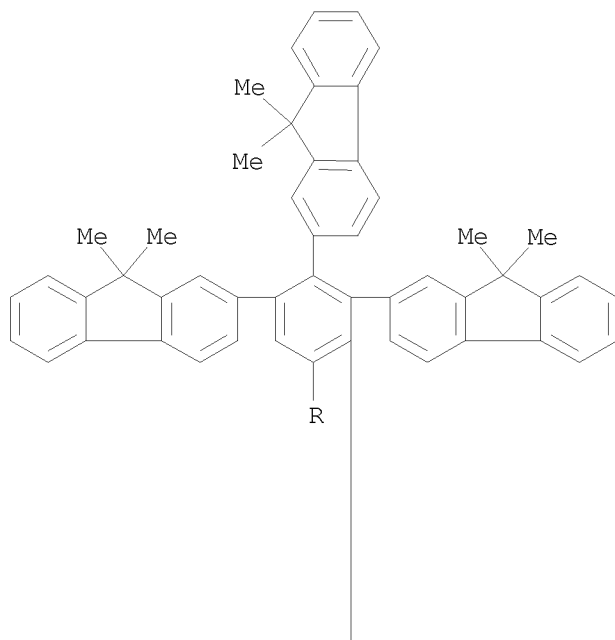
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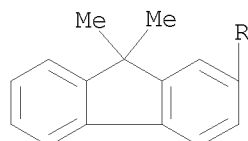
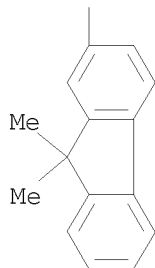


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

8 REFERENCES IN FILE CA (1907 TO DATE)  
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 21 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 668994-19-2 REGISTRY  
ED Entered STN: 30 Mar 2004  
CN 9H-Fluorene, 2,2',2'',2''',2''''-(1,2,3,4,5-benzenepentayl)pentakis[9,9-dimethyl- (CA INDEX NAME)  
MF C81 H66  
SR CA  
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

7 REFERENCES IN FILE CA (1907 TO DATE)

7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 22 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN

RN 668994-18-1 REGISTRY

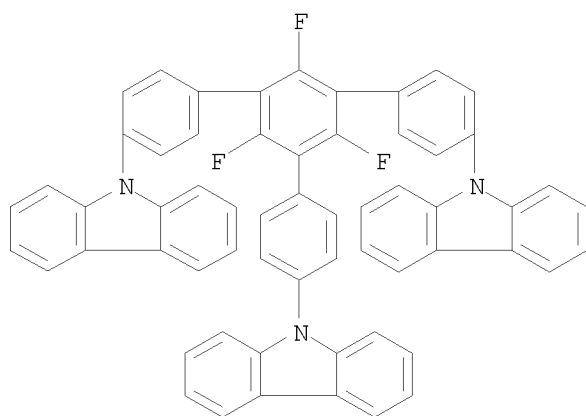
ED Entered STN: 30 Mar 2004

CN 9H-Carbazole, 9,9'-[5'-[4-(9H-carbazol-9-yl)phenyl]-2',4',6'-trifluoro[1,1':3',1''-terphenyl]-4,4''-diyl]bis- (9CI) (CA INDEX NAME)

MF C60 H36 F3 N3

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

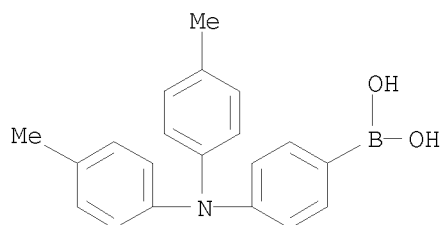
3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 23 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN

RN 654067-65-9 REGISTRY

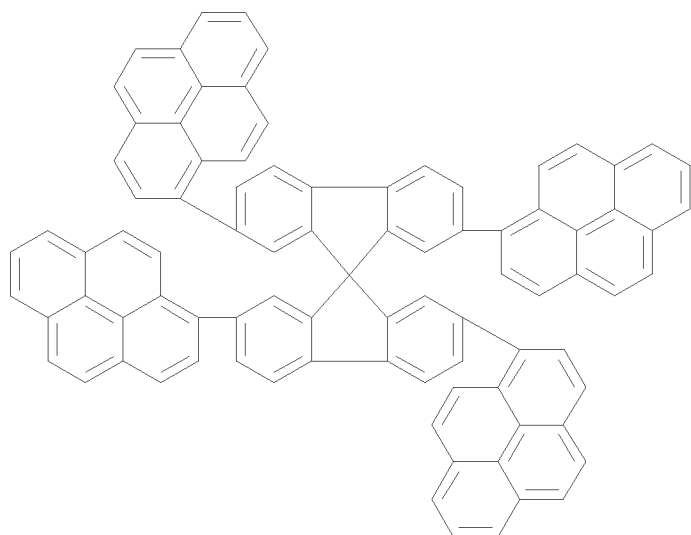
ED Entered STN: 25 Feb 2004  
 CN Boronic acid, B-[4-[bis(4-methylphenyl)amino]phenyl]- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Boronic acid, [4-[bis(4-methylphenyl)amino]phenyl]- (9CI)  
 MF C20 H20 B N O2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

13 REFERENCES IN FILE CA (1907 TO DATE)  
 13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 24 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 608130-98-9 REGISTRY  
 ED Entered STN: 23 Oct 2003  
 CN 9,9'-Spirobi[9H-fluorene], 2,2',7,7'-tetra-1-pyrenyl- (CA INDEX NAME)  
 DR 890947-45-2  
 MF C89 H48  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

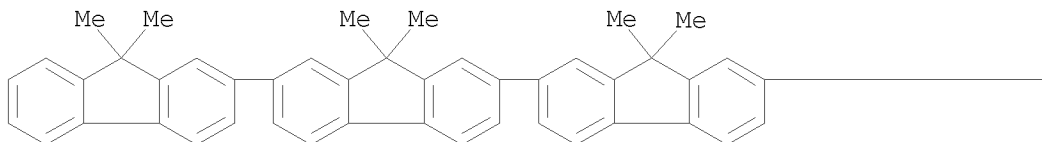


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

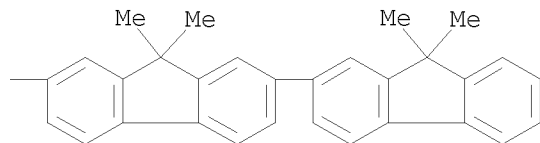
15 REFERENCES IN FILE CA (1907 TO DATE)  
 15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 25 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 549528-98-5 REGISTRY  
 ED Entered STN: 17 Jul 2003  
 CN 2,2':7',2'':7'',2''':7''',2''':7''''-Quinque-9H-fluorene,  
 9,9,9',9',9'',9'',9''',9''',9''',9''',9''''-decamethyl- (9CI) (CA INDEX NAME)  
 MF C75 H62  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

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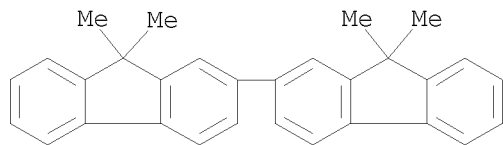
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 26 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 505078-42-2 REGISTRY  
 ED Entered STN: 25 Apr 2003  
 CN 2,2'-Bi-9H-fluorene, 9,9,9',9'-tetramethyl- (CA INDEX NAME)  
 MF C30 H26  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

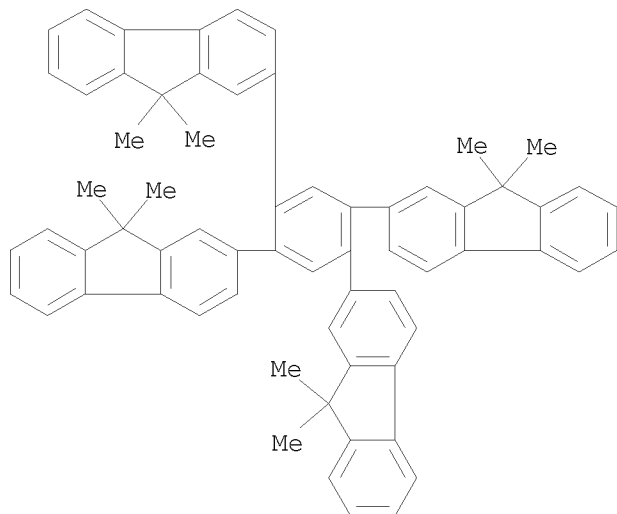


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

8 REFERENCES IN FILE CA (1907 TO DATE)  
 8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 27 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 475461-36-0 REGISTRY  
 ED Entered STN: 09 Dec 2002

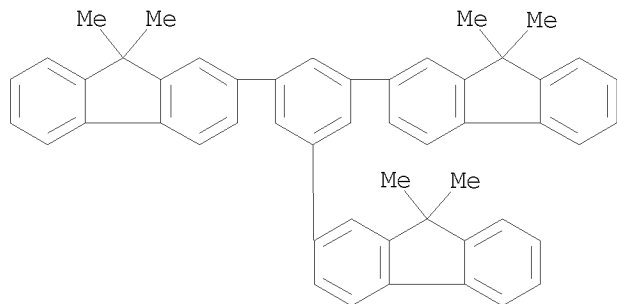
CN 9H-Fluorene, 2,2',2'',2'''-(1,2,4,5-benzenetetrayl)tetrakis[9,9-dimethyl-  
 (CA INDEX NAME)  
 MF C66 H54  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

12 REFERENCES IN FILE CA (1907 TO DATE)  
 12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 28 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 441352-90-5 REGISTRY  
 ED Entered STN: 31 Jul 2002  
 CN 9H-Fluorene, 2,2',2''-(1,3,5-benzenetriyl)tris[9,9-dimethyl- (CA INDEX  
 NAME)  
 DR 1019275-57-0, 475460-94-7  
 MF C51 H42  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL

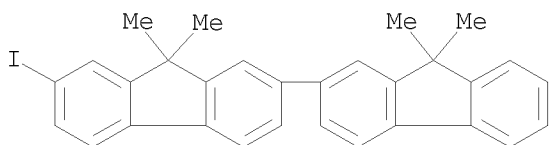


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

14 REFERENCES IN FILE CA (1907 TO DATE)

14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

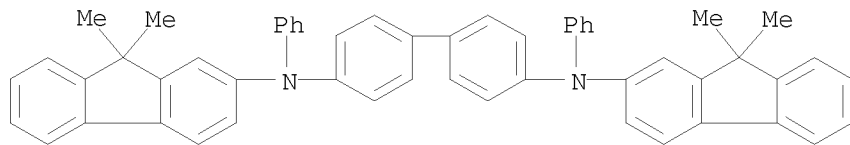
L2 ANSWER 29 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 400607-20-7 REGISTRY  
 ED Entered STN: 12 Mar 2002  
 CN 2,2'-Bi-9H-fluorene, 7-iodo-9,9,9',9'-tetramethyl- (CA INDEX NAME)  
 MF C30 H25 I  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4 REFERENCES IN FILE CA (1907 TO DATE)  
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 30 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 361486-60-4 REGISTRY  
 ED Entered STN: 11 Oct 2001  
 CN [1,1'-Biphenyl]-4,4'-diamine, N4,N4'-bis(9,9-dimethyl-9H-fluoren-2-yl)-N4,N4'-diphenyl- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN [1,1'-Biphenyl]-4,4'-diamine, N,N'-bis(9,9-dimethyl-9H-fluoren-2-yl)-N,N'-diphenyl- (9CI)  
 OTHER NAMES:  
 CN DFLDPBi  
 CN F 01  
 CN F 01 (ligand)  
 MF C54 H44 N2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

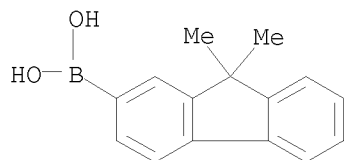
75 REFERENCES IN FILE CA (1907 TO DATE)  
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 75 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 31 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 333432-28-3 REGISTRY  
 ED Entered STN: 30 Apr 2001  
 CN Boronic acid, B-(9,9-dimethyl-9H-fluoren-2-yl)- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Boronic acid, (9,9-dimethyl-9H-fluoren-2-yl)- (9CI)



OTHER NAMES:

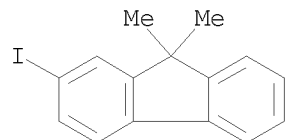
CN 9,9-Dimethyl-9H-fluoren-2-ylboronic acid  
 MF C15 H15 B O2  
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 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, TOXCENTER, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

55 REFERENCES IN FILE CA (1907 TO DATE)  
 55 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 32 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 144981-85-1 REGISTRY  
 ED Entered STN: 18 Dec 1992  
 CN 9H-Fluorene, 2-iodo-9,9-dimethyl- (CA INDEX NAME)  
 OTHER NAMES:  
 CN 2-Iodo-9,9-dimethyl-9H-fluorene  
 CN 2-Iodo-9,9-dimethylfluorene  
 CN 9,9-Dimethyl-2-iodofluorene  
 MF C15 H13 I  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

82 REFERENCES IN FILE CA (1907 TO DATE)  
 83 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 33 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 7553-56-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Iodine (CA INDEX NAME)  
 OTHER NAMES:  
 CN Actomar  
 CN DentaPure DP 90  
 CN Diatomic iodine  
 CN Diiodine  
 CN Eranol  
 CN Iodel FD  
 CN Iodine (127I2)  
 CN Iodine colloidal

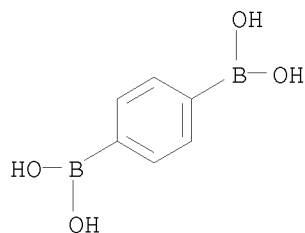
CN Iodine crystals  
CN Iodine molecule (I2)  
CN Iodine sublimed  
CN Iodomarin  
CN Iosan Superdip  
CN Jodosan  
CN Molecular iodine  
CN NSC 42355  
CN Tegodyne  
DR 8012-81-5, 8012-85-9, 8031-47-8, 24503-90-0  
MF I2  
CI COM  
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS,  
BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,  
CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE,  
ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMELIN\*, HSDB\*, IFICDB,  
IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PHAR, PIRA,  
PROMT, RTECS\*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*Enter CHEMLIST File for up-to-date regulatory information)

I-I

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

68518 REFERENCES IN FILE CA (1907 TO DATE)  
4054 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
68695 REFERENCES IN FILE CAPLUS (1907 TO DATE)

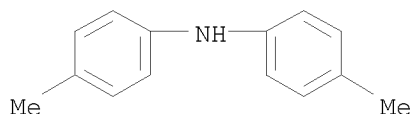
L2 ANSWER 34 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 4612-26-4 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Boronic acid, B,B'-1,4-phenylenebis- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Boronic acid, 1,4-phenylenebis- (9CI)  
CN p-Benzenediboronic acid (6CI, 7CI, 8CI)  
OTHER NAMES:  
CN 1,4-Phenylenebisboronic acid  
CN 1,4-Phenylenediboronic acid  
CN Benzene-1,4-diboronic acid  
CN NSC 25410  
CN p-Phenylenebis(boric acid)  
CN p-Phenylenediboronic acid  
MF C6 H8 B2 O4  
CI COM  
LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS,  
CHEMINFORMRX, CSCHEM, GMELIN\*, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

210 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 212 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 35 OF 35 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 620-93-9 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Benzenamine, 4-methyl-N-(4-methylphenyl)- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Di-p-tolylamine (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN 4,4'-Dimethyldiphenylamine  
 CN Bis(4-methylphenyl)amine  
 CN Bis(p-tolyl)amine  
 CN N,N-Bis(4-methylphenyl)amine  
 CN N-p-Tolyl-p-toluidine  
 MF C14 H15 N  
 CI COM  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,  
 CHEMLIST, CSCHEM, GMELIN\*, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

421 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 421 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	73.19	80.35
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.82

FILE 'REGISTRY' ENTERED AT 10:46:24 ON 12 NOV 2009  
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STRUCTURE FILE UPDATES: 11 NOV 2009 HIGHEST RN 1192206-33-9  
DICTIONARY FILE UPDATES: 11 NOV 2009 HIGHEST RN 1192206-33-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when  
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predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L2 17 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L3 1 669059-30-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.58	80.93
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.82

FILE 'CAPLUS' ENTERED AT 10:46:30 ON 12 NOV 2009  
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FILE COVERS 1907 - 12 Nov 2009 VOL 151 ISS 20  
FILE LAST UPDATED: 11 Nov 2009 (20091111/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

During November, try the new LSUS format of legal status information in the CA/CAPLUS family databases for free! Complete details on the number of free displays and other databases participating in this offer appear in NEWS 10.

=> S L3

L4 3 L3

=> DIS L4 1 IBIB IABS  
THE ESTIMATED COST FOR THIS REQUEST IS 3.00 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2007:330191 CAPLUS  
DOCUMENT NUMBER: 146:326163  
TITLE: Pyrene derivative and organic electroluminescence device  
INVENTOR(S): Ito, Mitsunori; Kubota, Mineyuki; Funahashi, Masakazu  
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan  
SOURCE: PCT Int. Appl., 92pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2007032162	A1	20070322	WO 2006-JP315687	20060808
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,			

US, UZ, VC, VN, ZA, ZM, ZW  
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM

EP 1932895 A1 20080618 EP 2006-782513 20060808  
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR  
US 20090058270 A1 20090305 US 2007-929122 20071030  
KR 2008052594 A 20080611 KR 2008-706391 20080314  
CN 101268167 A 20080917 CN 2006-80034089 20080317

PRIORITY APPLN. INFO.:

JP 2005-270664 A 20050916  
WO 2006-JP315687 W 20060808

#### ABSTRACT:

An organic electroluminescence device comprising a neg. electrode and a pos. electrode and one or two or more organic thin-film layers including at least a light emitting layer, wherein the light emitting layer contains a pyrene derivative AkXmArnYoBp [X = (un)substituted pyrene; A,B = H, (un)substituted C6-50 aromatic hydrocarbon, (un)substituted C5-50 aromatic heterocycle or (un)substituted C1-30 (un)saturated alkylene; Ar = (un)substituted C6-50 aromatic hydrocarbon or (un)substituted C5-50 aromatic heterocycle; Y = (un)substituted C1-50 condensed ring or condensed heterocycle; k, o, p = 0 - 10, m = 1 - 10, n > 3] and an amine compound Y1(Y2)NPq(NY3(Y4))r [P = (un)substituted C6-40 aromatic hydrocarbon, (un)substituted C3-40 heterocycle, (un)substituted styryl or (un)substituted C10-40 condensed aromatic; Y1-4 = (un)substituted alkylene, aralkylene, alkenylene, amino or silyl, (un)substituted arylene or unsubstituted carbonyl or ether or thio ester containing divalent heterocycle chains; q = 1 - 20, r = 0 - 3]. The organic electroluminescence device excels in heat resistance, ensuring prolonged operating life and high luminous efficiency, and is capable of emitting blue, green and red lights.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD  
(2 CITINGS)  
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L4 2 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 3.00 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:329265 CAPLUS

DOCUMENT NUMBER: 146:347149

TITLE: Asymmetric fluorene derivative and organic  
electroluminescent element containing the same

INVENTOR(S): Ito, Mitsunori; Kubota, Mineyuki; Funahashi, Masakazu

PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan

SOURCE: PCT Int. Appl., 91pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2007032161	A1	20070322	WO 2006-JP315643	20060808
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				

GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,  
KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,  
MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU,  
SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,  
US, UZ, VC, VN, ZA, ZM, ZW  
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
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GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM  
EP 1926159 A1 20080528 EP 2006-782469 20060808  
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR  
US 20090261711 A1 20091022 US 2007-928656 20071030  
KR 2008052589 A 20080611 KR 2008-706136 20080313  
IN 2008CN01270 A 20081128 IN 2008-CN1270 20080314  
CN 101268567 A 20080917 CN 2006-80034222 20080317  
PRIORITY APPLN. INFO.: JP 2005-268968 A 20050915  
WO 2006-JP315643 W 20060808

# ABSTRACT:

The invention refers to an organic electroluminescent element which comprises a cathode and an anode and, sandwiched there between, one or more thin organic layers comprising a luminescent layer, wherein at least one of the thin organic layers comprises an asym. fluorene derivative compound Ar1kAFL1kBFL2nCAr2p [Ar1,2 = (un)substituted C6-50 aromatic hydrocarbon or heterocycle; A,B,C = single bond, (un)substituted alkylene, aralkylene, arylene or heteroatom, or alkylene, aralkylene alkynyl, amino, silyl, carbonyl ether or thioether having (un)substituted arylene or divalent heterocycle; FL1,2 = (un)substituted fluorenediyl; k, p = 0 - 10, k + p ≥ 1; m,n = 1 - 10, m + n ≥ 1] and an amine compound Y1Y2NPq(NY3Y4)r [P = (un)substituted C6-40 aromatic hydrocarbon, C3-40 heterocycle, styryl, or (un)substituted C10.40 condensed aromatic]. This organic electroluminescent element has excellent heat resistance and a long life and can emit any of blue, green, and red lights at a high luminescent efficiency.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT